

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)	
	Office Action Summary	10/786,603	IKOMA ET AL.	
,		Examiner	Art Unit	
_		Veronica F. Faison	1755	
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet with the	e correspondence address	
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.1: SIX (6) MONTHS from the mailing date of this communication. Depend for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be will apply and will expire SIX (6) MONTHS from the application to become ABANDON	ON. timely filed om the mailing date of this communication. NED (35 U.S.C. § 133).	
Status				
1)⊠	Responsive to communication(s) filed on <u>01 De</u>	ecember 2005.		
2a)⊠	This action is FINAL . 2b) ☐ This action is non-final.			
3)□				
	closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11,	453 O.G. 213.	
Disposit	ion of Claims			
4)⊠	Claim(s) 25 and 31-34 is/are pending in the ap	plication.		
	4a) Of the above claim(s) is/are withdrawn from consideration.			
5)□.	5) . Claim(s) is/are allowed.			
•	Claim(s) 25 and 31-34 is/are rejected.			
	Claim(s) is/are objected to.			
8)∐	Claim(s) are subject to restriction and/o	r election requirement.		
Applicat	ion Papers			
9)[The specification is objected to by the Examine	r.		
10)[The drawing(s) filed on is/are: a) acce	epted or b) objected to by the	e Examiner.	
	Applicant may not request that any objection to the			
_	Replacement drawing sheet(s) including the correct			
11)[The oath or declaration is objected to by the Ex	raminer. Note the attached Office	ce Action or form PTO-152.	
Priority ι	under 35 U.S.C. § 119			
	Acknowledgment is made of a claim for foreign ☐ All b)☐ Some * c)☐ None of:	priority under 35 U.S.C. § 119((a)-(d) or (f).	
,	1. Certified copies of the priority documents	s have been received.		
	2. Certified copies of the priority documents	s have been received in Applica	ation No	
	3. Copies of the certified copies of the prior	rity documents have been recei	ved in this National Stage	
	application from the International Bureau	·		
* 5	See the attached detailed Office action for a list	of the certified copies not recei	ved.	
Attachmen	t(s)	_		
	te of References Cited (PTO-892)	4) Interview Summa Paper No(s)/Mail		
3) 🔲 Infor	te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date		Patent Application (PTO-152)	

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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 25 and 31-34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nakanishi et al (US Patent 5,412,021) in view of Bui et al (US Patent 5,554,212) in further view of Yamamoto et al (US Patent 5,203,913).

Nakanishi et al disclose a water-based erasable ink composition comprising water, a colorant, water-soluble polyvinyl acetal resin, and an aqueous emulsion of an aliphatic carboxylic acid ester. The reference further discloses that a polyoxyethylene polyoxypropylene block copolymer having a molecular weight of about 700 to 3000 may be present in the composition in amount of 0.1 to 5 percent by weight. The reference remains silent to the HLB of 8 or more or a cloud point of 50°C or higher. However, the reference discloses that PLURONIC F68 which are well known to have a HLB of 8 or more, may be used in the composition. See abstract, col. 2 lines 35-66, col. 5 lines 24-57, and claims 1, 4, 7 and 11. Nakanishi et al fail to teach a ball-point pen or the N-polyoxyalkylenepolyalkylenepolyamine.

Bui et al disclose an aqueous phase change ink composition comprising a nonionic surfactant such as ethylene oxide propylene oxide block copolymer surfactant and polyoxamine. The reference further discloses that the polyoxamine (TETRONIC

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1307) has a molecular weight of 17,000. The reference also discloses that ethylene oxide propylene oxide block copolymer (PLURONIC) may have molecular weight of about 1,000 to about 50,000. In the examples the nonionic surfactants are present in an amount that is encompassed by Applicants claimed range. The examples also show a colorant is present in the composition. However, the reference discloses that TETRONIC 1307 and PLURONIC F127 which are well known to have a HLB of 8 or more, may be used in the composition. See abstract, col. 2 lines 59-67, col. 3 line 62col. 4 line 33, col. 6 lines 36-62, and examples.

The subject matter as a whole would have been obvious to one having ordinary skill in the art at the time the invention was made to have replaced PLURONIC with TETRONIC 1307 because the substitution of art recognized equivalents as shown by Bui et al would have been within the level of ordinary skill in the art.

When general conditions (molecule weight) are disclosed in the prior art, it is not inventive to discover the optimum or workable ranges by changing the size, shape, proportion of shape, degree and sequence of added ingredients through routine experimentation. (In re Rose, 105 USPQ 137; In re Aller 220F, 2d 454, 105 USPQ 233,235 (CCPA 1955); In re Dailey et al., 149 USPQ 47; In re Reese, 129 USPQ 402; In re Gibson, 45 USPQ 230).

Yamamoto et al teach an erasable aqueous ink composition that may be used in a wide variety of writing devices such as felt-tipped pen, ball-point pens, line markers, and plotters (col. 3 lines 30-39).

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Therefore it would have been obvious to one of ordinary skill in the art that the ink composition of Nakanishi et al may be used in a number of writing devices including ball-point pens as Yamamoto teaches a number of writing devices that may be used with a water-based erasable ink such as felt-tipped (markers).

Response to Arguments

Applicant's arguments with respect to claim 25 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Veronica F. Faison whose telephone number is 571-

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272-1366. The examiner can normally be reached on Monday-Thursday and alternate Fridays 8 am to 5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jerry Lorengo can be reached on 571-272-1233. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

VFF 3-3-06

